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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/993,159	11/05/2001	Timothy W. Lovenberg	ORT-1528	. 8725
75	90 09/25/2003			
Philip S. Johnson, Esq. Johnson & Johnson One Johnson & Johnson Plaza			EXAMINER WILSON, MICHAEL C	
	,		1632	c/
			DATE MAILED: 09/25/2003	Y

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
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Office Action Summary	09/993,159	LOVENBERG ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication app	Michael C. Wilson	with the correspondence address				
Period for Reply	caro on the dover ancet	mar are correspondence duarees				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may within the statutory minimum of till apply and will expire SIX (6) M cause the application to become	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C.§ 133).				
1) Responsive to communication(s) filed on	·					
2a) ☐ This action is FINAL. 2b) ☑ Thi	s action is non-final.	,				
3) Since this application is in condition for allowa closed in accordance with the practice under the state of the state o						
Disposition of Claims 1) Claim(a) 1.7 in/ore pending in the application						
4) Claim(s) 1-7 is/are pending in the application.	n from consideration					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1-7</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement					
Application Papers	election requirement.	·				
9) The specification is objected to by the Examiner						
10) The drawing(s) filed on is/are: a) accep	ted or b)⊡ objected to b	the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the prior application from the International Bur * See the attached detailed Office action for a list of the prior action f	eau (PCT Rule 17.2(a)).				
14) ☐ Acknowledgment is made of a claim for domestic	•					
a) The translation of the foreign language pro	visional application has	been received.				
Attachment(s)	- p under 00 0.0.	99				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.	5) Notice	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)				
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DETAILED ACTION

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-7 are rejected under 35 U.S.C. 101 because the claimed invention lacks patentable utility.

The claims are directed toward a transgenic mouse having a disruption of an endogenous histamine H3 receptor that is insensitive to amnesic effects of scopolamine as compared to a wild-type mouse. The specification teaches H3-/- mice are resistant to the amnesic effect of scopolamine (pg 10, lines 3-25; pg 17, line 21, through pg 18, line 9). The specification does not teach how to use mice that are resistant to the amnesic effect of scopolamine. The art at the time of filing did not teach how to use such a mouse. Since the time of filing, Toyota (2002, Mol. Pharmacol. Vol. 62, pg 389-397, co-written by the inventors) taught H3-/- mice are resistant to the amnesic effect of scopolamine (pg 396, col. 1, 13-14). However, Toyota does not teach how to use such mice. Toyota concludes the mice should prove important for "elucidating the role of H3" receptors in a variety of peripheral and CNS functions as well as the pathophysiological states that are associated with altered histaminergic activity" (pg 396, col. 2, last sentence). Therefore, while the phenotype of the mouse is specific, the function of H3 receptors in the role of the amnesic effect of scopolamine is not. The insensitivity to scopolamine implies H3 receptors merely play a role in "passive avoidance." It remains unknown how H3 receptors function in the amnesic effect of scopolamine. Overall, the

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specification does not provide a specific or substantial utility for a mouse that is resistant to the amnesic effect of scopolamine as claimed. Claims 5-6 are included because they are directed toward making the mouse. Claim 7 is included because the cell is isolated from the mouse and because no additional use for the cell alone has been provided.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-7 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claims 1-4 are directed toward a transgenic mouse having a disruption of an endogenous histamine H3 receptor that is insensitive to amnesic effects of scopolamine as compared to a wild-type mouse. The specification teaches H3-/- mice are resistant to the amnesic effect of scopolamine (pg 10, lines 3-25; pg 17, line 21, through pg 18, line 9). The specification does not teach how to use mice that are resistant to the amnesic effect of scopolamine. The art at the time of filing did not teach how to use such a mouse. Since the time of filing, Toyota (2002, Mol. Pharmacol. Vol. 62, pg 389-397, co-written by the inventors) taught H3-/- mice are resistant to the amnesic effect of scopolamine (pg 396, col. 1, 13-14). However, Toyota does not teach how to use such

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skill to use the mice claimed. Therefore, it would require one of skill undue experimentation to determine how to use the mouse claimed.

The claims encompass any disruption of any histamine H3 receptor. First, the claims do not even require disrupting the H3 receptor gene, which is the only means of disrupting the H3 receptor disclosed in the specification. Second, the only mouse tested was a mouse homozygous for the disruption (Fig. 1 and 2), which is the only type of disruption that cause the phenotype claimed. Third, H3 receptors are a subtype of histamine receptor and encompass at least 2 types (West of record, 1990, Mol. Pharmacol., Vol. 38, pg 610-613). However, the specification does not teach which H3 receptor was disrupted or that a disruption in any H3 receptor causes the phenotype claimed. Therefore, the specification does not provide adequate guidance enabling any disruption in any H3 receptor causes the phenotype claimed.

Claims 5-6 are included because they are directed toward making the mouse.

Claim 7 is included because the cell is isolated from the mouse and because no additional use for the cell alone has been provided.

Claims 2-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "gene" in claims 2-4 lacks antecedent basis.

The phrase "a mouse blastocysts" in claim 5, item b) is grammatically incorrect.

The phrase "the blastocyst" in claim 5, item c) lacks antecedent basis.

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Conclusion

No claim is allowed.

Inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Wilson who can normally be reached on Monday through Friday from 9:00 am to 5:30 pm at (703) 305-0120.

Questions of formal matters can be directed to the patent analyst, Dianiece Jacobs, who can normally be reached on Monday through Friday from 9:00 am to 5:30 pm at (703) 305-3388.

Questions of a general nature relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-1235.

If attempts to reach the examiner, patent analyst or Group receptionist are unsuccessful, the examiner's supervisor, Deborah Reynolds, can be reached on (703) 305-4051.

The official fax number for this Group is (703) 308-4242.

Michael C. Wilson

MICHAEL WILSON PRIMARY EXAMINER